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ANCIENT EGYPT









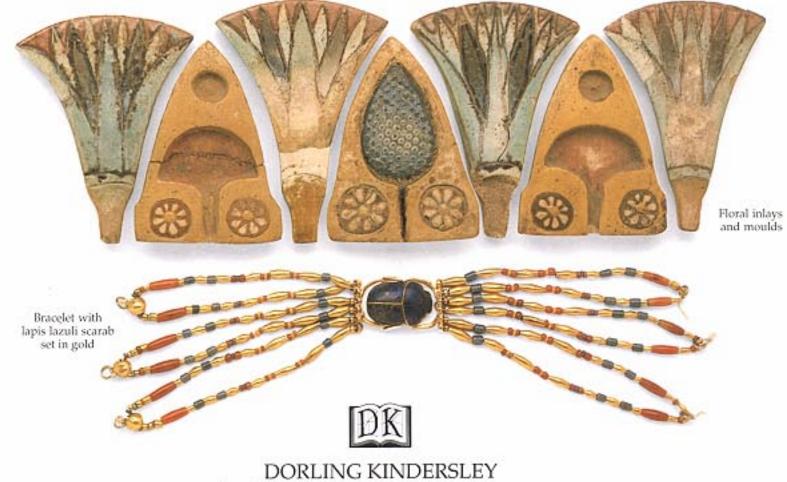


EYEWITNESS © GUIDES



Gold plaque showing pharaoh and sun-god Atum

Written by **GEORGE HART**



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Sketch on flake of limestone

Buying and selling An Egyptian carpenter Hunting, fishing, and fowling The Egyptians at home Food and drink Song and dance Toys and games From fabric to finery All that glitters Adorning the body Animals of the Nile Valley Egypt after the pharaohs Index





Skin well !

preserved because

body was dried out by sand

red hair.

On the banks of the Nile

Desert covers more than 90 per cent of Egypt. Called the "Red Land", the desert supported only small settlements in wadis and oases. The Egyptians lived on the banks of the River Nile or beside canals leading from it. This was

"Kemet" or the "Black Land", named after the rich dark silt on which the farmers grew their crops. Without this fertility, there would have been no civilization in Egypt. Right up until modern times the pattern of life in Egypt for the majority of the population has depended on the exploitation of its fertile agricultural resources. Today the population explosion, growth of cities, and the construction of large industrial plants is changing Egyptian lifestyles. The Nile flood began the year for the Egyptian farmer, when the river, increased by the rising waters of the Blue Nile and White Nile converging just north of Khartoum in the Sudan, brought deposits of silt into Egypt. When the Nile waters subsided the farmers got to work sowing barley and emmer wheat. The result was usually a good summer harvest. The High Dam at Aswan, built in the 1960s, totally

Scribe with

changed the régime of the

river in Egypt.

A RIVERSIDE PEOPLE

The ancient Egyptians lived

in a strip of land on either

side of the Nile, where the

Nile flood made the land

In a climate of extremes, crops could sometimes fail and famine could hit the population hard. Statues of people like this beggar remind us of this problem in ancient Egypt.

SICKLE Farmers used the simplest tools. This sickle is made of wood with flint teeth. In pictures of the harvest you can see groups of men cutting the crops using sickles like this. The stalks left behind in the field would eventually be gathered to make mats and baskets. Meketre, owner

of the cattle



The men would gather up the grain and chaff and throw it into the air. The breeze carried away the lighter chaff, leaving the grain to fall on to the floor. The winnowers wear linen scarves to stop the chaff getting into their hair.

Water was still needed when the flood went down, so canals were cut to bring water to the fields as far away from the river banks as possible. To raise the water from the river to fill the canals, the Egyptians used a device called a shaduf, as they do today. It consists of a trellis supporting a pole with a counterweight. It could easily be operated by one man, who would lower the bucket into the river before pulling it up with the help of the

WINNOWING FAN

When donkeys had

brought the wheat to

the threshing floor,

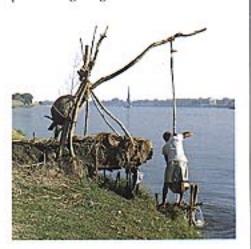
two wooden fans like

this would be used to

separate the grain

from the chaff.

Mekelre's son



fertile. The flood area is shown in green on this map. CATTLE COUNTING An important measure of a person's wealth in ancient Egypt was the number of cattle he Herdsman owned. This tomb model shows a driving man called Meketre, who was cattle with a mayor of Thebes in c. 2000 B.C. Here his cattle are being counted, as they are driven past the mayor and his top officials and scribes. The accounts made would be stored for



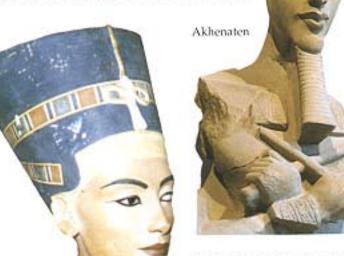
The oval enclosing the hieroglyphs that make up a royal name is called a cartouche. This one contains the name of King Tuthmosis III.

Famous pharaohs

 $T_{\text{HE KING}}$ was not only the most powerful and important man in Egypt - he was thought to be a god. He was know as the pharaoh - a word which derives from a respectful way of referring to the king by describing him as the "great house"

(per-ao), meaning the palace where he lived. The Queen of Egypt could also be seen as a

goddess but was usually given the title of "Great Royal Wife" – only rarely did women rule Egypt in their own right. There was an effective system of training a prince to become a pharaoh, involving him becoming an expert sportsman and potential war leader. Often the ruling pharaoh would adopt his heir as "co-regent" to enable a smooth take-over when he died. Princes sometimes had to wait a long time. One pharaoh holds the record for the longest reign we know for any monarch. Pepy II came to the throne when he was six years old. He was still king of Egypt 94 years later when he was 100. It is quite remarkable in Egypt's long history that we have only a few references to pharaohs being assassinated, usually as a result of a plot in the court



to put a prince who was not the true heir on to the throne.

Nefertiti

AKHENATEN AND NEFERTITI

In Akhenaten's reign the traditional Egyptian gods were banished - only the sun-god was worshipped. To break the links with other gods, Akhenaten founded a new capital city and closed the temples of other gods. Queen Nefertiti helped her husband set up the cult of the sun-god Aten and probably ruled with him. After their death Tutankhamun and his successors restored the old gods. The names of Akhenaten and Nefertiti became hated and were removed from inscriptions and their temples were torn down.



Osiris, God of



This determined woman ruled Egypt for about 20 years. She was supposed to be regent for her young stepson, but took over the reins of government. She wore the pharaoh's crown and royal ceremonial beard. In this sculpture she wears the crown of Upper Egypt with the cobra goddess.



pharaoh's power is shown in this ivory statuette, carved over 3,600 years ago.

The mystery of the sphinx There has been a lot of confusion about sphinxes in ancient Egypt because of Greek legends. In the Greek myth of King Oedipus, the sphinx is a ferocious and lethal female creature who destroys men who are unable to solve the riddle she sets them. But the Egyptians saw the sphinx

as a lion's body with the ruler's head. The lion was a creature of the sun-god and so emphasized the king's role as son of Re. The lion's strength also suggests the monarch's great power. Sometimes sphinxes

combine other elements such as the head and wings of a hawk symbolizing the god Horus.

RAMESSES THE GREAT In the 13th century B.C., Ramesses II reigned over Egypt for 67 years. He built more monuments and set up more statues than any other pharaoh. Among his buildings are the mortuary complex on the West Bank at Thebes, today called the Ramesseum, from which this statue comes. The king wears a royal headcloth called the "nemes",

above which is a crown of cobras.



This ruler came to the throne at only nine years old. He was obviously guided by his high officials, but seems to have been determined to bring back the old gods who had been banished by Akhenaten (see left). This famous golden mask comes from his tomb (p. 23),



TUTHMOSIS IV

This king was famous because he

freed the great sphinx at Giza

blown around it. He is portrayed on his knees holding two jars of sacred liquid. He is protected by the

from the desert sand that had

cobra goddess Wadjet on

who it was thought

at any enemies

SPHINX AT GIZA

to his pyramid.

This sphinx was carved

around 4,500 years ago

for the pharaoh Khafre and guarded the way

his forehead. Only kings TUTANKHAMUN and queens were entitled to wear cobra goddesses, would deal out instant death by spitting fames

The royal court

ROYAL HEAD

a window.

Lion's-paw legs

This portrait in glass

was probably used as an inlay in a piece of

palace furniture or as

a decoration around

 ${
m A}$ t great state occasions like royal jubilee celebrations or the giving of gifts to favoured courtiers, the king and court gathered together, and top officials, diplo-mats, and high priests would attend. Some of these courtiers were relatives of the king, some won high office through their ability as scribes. When people approached the king, they often kissed the ground beneath his feet. We know this because one courtier boasted that the pharaoh insisted that he kiss the royal leg and not the ground. Sometimes the pharaoh simply wanted to relax at court.

King Sneferu was all set to watch 20 beautiful women of his harem row on the royal lake. It went well until one girl dropped her hair clasp in the lake, began to sulk, and stopped rowing;

she refused even the king's request to carry on. The court magician had to part the waters and get the clasp from the bottom.

ROYAL THRONE Queen Hetepheres was the mother of King Khufu (p. 20). Her original burial place was robbed but

some of her splendid furniture was reburied near her son's pyramid. The court throne was made of wood overlaid with gold leaf. Insects ate the wood away but archaeologists were able to reconstruct the furniture.

ROYAL VASES The pharaohs used the best quality utensils and cosmetic containers, which were buried in their tombs for use in the next world. These two smoothly carved mottled stone vases have lids of gold adorned with imitation twine, also in gold. They were made for King Khasekhemwy.





OYSTER-SHELL PENDANT The earliest jewellery in Egypt was often made of shells. Later jewellers imitated these shapes in gold. This one is carved with the name of King Senwosret,











This scarab was placed over the heart of a king to help him through the scrutiny of his past life that happened in the underworld

Preparing for the tomb

 $T_{\mbox{\scriptsize HE}}$ EGYPTIANS dreaded the thought that one day their world might cease to exist. With their belief in the power of magic, they developed a funerary cult which, in their eyes, ensured their survival for ever. This involved preserving the body of the deceased. The embalmers took the body to the Beautiful House, where they worked. They made a cut in the left side of the body with a flint knife and removed the liver

and lungs. These were dried out and stored in special vessels called "canopic jars". The brain was also removed, but the heart was left in the body, so that it could be weighed in the afterlife (p. 19). Then the body was covered with crystals of a substance called natron, which stopped it rotting, packed with dry material like leaves or sawdust, and wrapped in linen bandages.



ANUBIS

The god Anubis was supposed to be responsible for the ritual of embalming. His titles included "He who is in the place of embalming". Here he is putting the final touches to a mummified corpse.

WAXPLATE

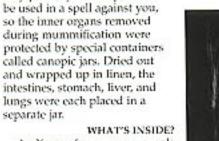




MUMMY LABELS

Small wooden dockets attached to mummies identified the body and gave protection. On one of these Anubis is shown. He is black because this is the colour of life in ancient Egypt, being the colour of the fertile Nile mud, but it is also the colour of mummified bodies.

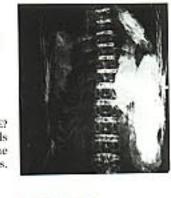




An X-ray of a mummy reveals the stuffing that replaced some of its organs.

CANOPIC JARS

Any part of your body could



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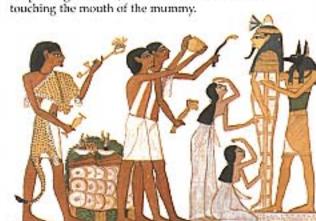
A compound of sodium carbonate and sodium bicarbonate, natron was used to dry out the corpse. The crystals were packed around the body and within 40 days it would be dried out and no further decay would take place. It would then be ready for wrapping linen bandages.



in the flesh of the corpse. The protective eye of Horus (p. 24), symbolized the soundness of the body on which it was placed.

Plates like this were used to cover cuts made

UTENSILS FOR "OPENING THE MOUTH" One of the most important of all funerary rites, this ceremony restored a dead person's living faculties, allowing the mummy to eat, drink, and move around. Egyptians hated to die abroad because they knew that their corpse would not receive this rite and their afterlife would be in jeopardy. This model kit contains some of the instruments for the "Opening the mouth" ceremony. There are vases for the sacred liquids, cups for pouring libations, and a forked instrument for



OPENING THE MOUTH

A priest wearing the mask of Anubis holds the coffin upright. Behind the grieving wife and daughter, priests scatter purified water and touch the mouth of the mummy case with the ritual instruments. The eldest son burns incense and a spell is recited.



WITHIN THE WRAPPINGS Unwrapping a mummy shows how the natron stops the process of decay. The body is perfectly preserved - right down to the fingernails and toenails.

Ancient linen urapping



Hand and arm from Egyptian nummy, showing details of skin and nails

Everlasting bodies

successful the embalmers were.

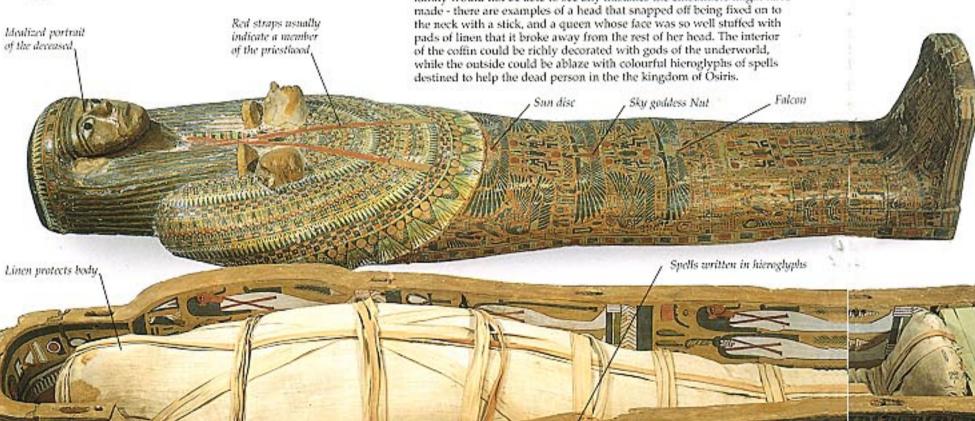
 $T_{
m HE\ FINAL\ STAGE}$ in the embalming process was to put the body into its coffin. For a rich person, this could be an elaborate container made up of several different, richly decorated layers. The body would then be well preserved and, as far as the Egyptians were concerned, would last for ever. The reason they did this was that they thought that after a person's physical death a number of elements lived on. The most important was a person's "Ka", which they thought of as the body's double and which could bring the corpse back to life. Another spirit that survived was a person's "Ba", which had the head of the deceased and the body of a hawk. They also thought that a person's shadow had an eternal existence as well as their name. The process of mummification was intended to make an everlasting body out of a corpse that was ready to decompose, and to provide the Ka with a home in the afterlife. The superbly preserved bodies that have been found in Egyptian tombs show how

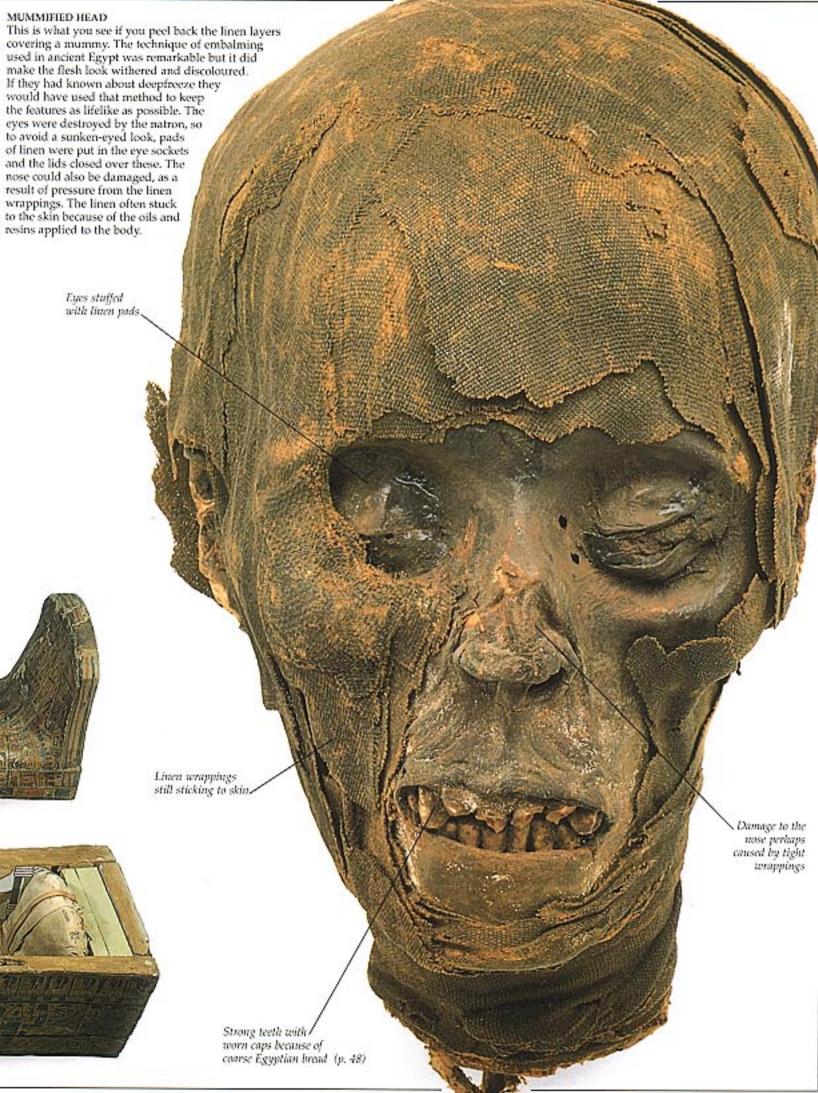
HORROR HERO
The body of Ramesses III, who ruled over Egypt in the 12th century B.C., shows his eyes packed with linen and his arms still positioned as if holding the crook and flail sceptres (p. 13). Actor Boris Karloff had his mummy costume and features modelled on Ramesses III for his role in the film The Mummy.

Wrapped in linen bandages, the body was free from decay and the

family would not be able to see any mistakes the embalmers might have







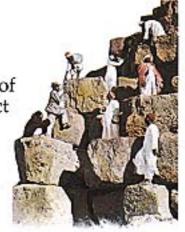




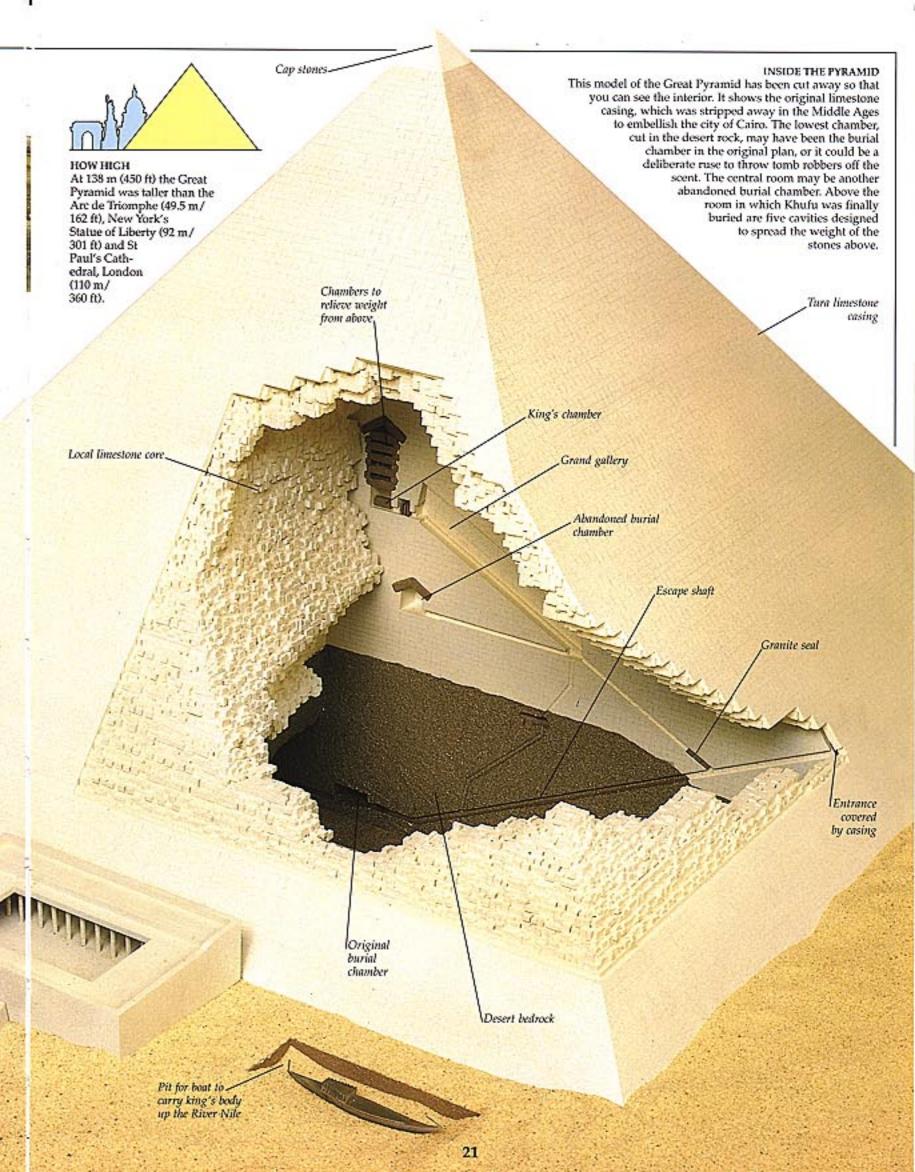
GRAND GALLERY
This gallery, 47 m (154 ft) long and 8.5 m (28 ft) high, rises towards the burial chamber. It has a magnificent stone roof. After the burial, great blocks of granite were slid down the gallery to seal off the burial chamber. The pharaoh's sarcophagus could not have been pulled up the gallery into the burial chamber – it is wider than the gallery and must have been constructed when the pyramid was being built.

The great pyramids

The first pyramid was built as the burial place of King Djoser in c. 2630 B.C., by his gifted architect Imhotep (pp. 34-35). It rose in six stages and is called the Step Pyramid. It was supposed to represent a gigantic stairway for the king to climb to join the sun-god in the sky. Some later kings had step pyramids too, but in the reign of King Sneferu the true pyramid with sloping sides developed. The idea of this pyramid was to recreate the mound that had emerged out of the watery ground at the beginning of time, on which the sun-god stood and brought the other gods and goddesses into being. The largest pyramid of all is the Great Pyramid at Giza, built for King Khufu in c. 2528 B.C. The pyramids were intended to protect the bodies of the pharaohs buried deep inside them. Later pyramids contained inscriptions of spells to help the pharaoh in the afterlife. Doors of granite and false passages were constructed to deter robbers who came in pursuit of the rich offerings buried with the kings. But by c. 1000 B.C. all the pyramids had been robbed of their precious contents.



CLIMBERS
Today there is a law in Egypt forbidding visitors from climbing the Great Pyramid. But in the 19th century many people felt the urge to climb the pyramid and admire the view below. It was not difficult to climb, but if you slipped it was almost impossible to regain your footing.



Small pyramids, the burial places of the three chief wives of Khufu

THE GREAT PYRAMID

Built for King Khufu around 4,500 years ago, the
Great Pyramid was one of the seven Wonders of the
World. It contains over 2.3 million limestone blocks ranging
from 2.5 to 15 tonnes in weight. The builders may have had
levers to help get the stones into place, but had no pulleys
or other machinery. The whole pyramid probably took
about 20 years to build. There was a standing workforce of
craftsmen and labourers, which was swelled every year for
three months when the Nile flooded and the field workers
were sent on national service to help on the construction
work. The pyramids were just one part of the funerary
complex devoted to the pharaoh's afterlife. There would
also be a mortuary temple for cult offerings and a causeway
leading to the valley temple—the place where the king's
body was received after its last journey along the river Nile.

Causeway connecting, pyramid to temple in Nile valley

could be made

20

The Valley of the Kings

RAMESSES VI

This king, who

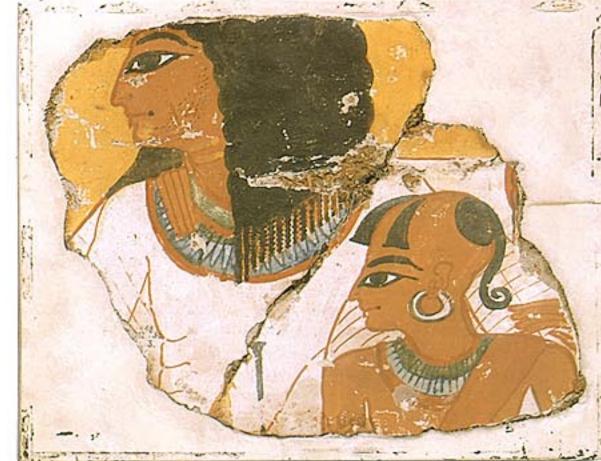
lived around 1150 B.C., was buried

many tonnes. This is part of the lid.

in a granite coffin that weighed

THE PYRAMID AGE drew to a close in c. 2150 B.C. Nearly all the pharaohs from Tuthmosis I (1504 B.C.) to Ramesses XI (1070 B.C.) chose to be buried in tombs in the Valley of the Kings. Remote from the flood plain, the valley lay deep in the cliffs to the west of the Nile. There was a ridge in front of the entrance where guards were posted. Some of the tombs were placed high in the cliff side in an attempt to conceal their entrances from robbers; others had elaborate portals and were much more obvious. The usual pattern was for the tomb to have a deep corridor - known as the "Way of the Sun-God" - with a well or shaft near the inner end that was intended to catch

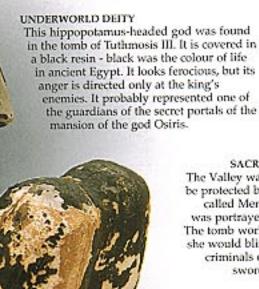
rainwater and to deter tomb robbers. Beyond this was the "Hall of Gold", where the king would be buried. He would be surrounded by gilded furniture and jewellery, royal clothing, and regalia. The contents of the tomb of Tutankhamun were the only ones to escape the hands of the robbers before c. 1000 B.C.



FOREMAN AND HIS SON

Foremen like Anherkhau, shown here with his son, were responsible for making sure that the metal tools were distributed to the workers. They also had to organize the "crew" in the tomb so that the stone cutters would be swiftly followed by the plasterers and painters, and the flow of work would be kept up. This picture of Anherkhau comes from his own colourfully painted tomb.





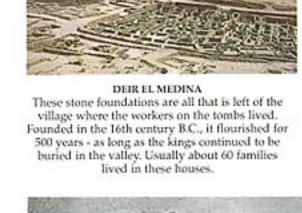
SACRED SERPENT The Valley was thought to be protected by a goddess, called Meretseger, who was portrayed as a cobra. The tomb workers thought she would blind or poison criminals or those who swore false oaths.



This view of the Valley of the Kings by the 19th century artist David Roberts conveys something of the solitude of the place. Today it is much busier, with a modern road, coach park, and the stalls of souvenir sellers destroying the

VALLEY VIEW

ALL DRESSED UP The delicate items discovered in Tutankhamun's tomb had to be carefully prepared for transport to Cairo Museum. Archaeologists Howard Carter and Lord Caernaryon are here wrapping up one of the guardian statues from the tomb.



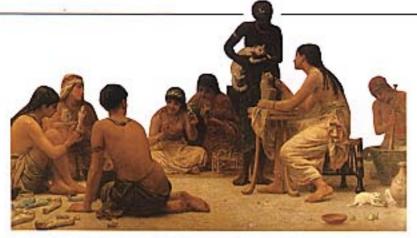


Tutankhamun's tomb

The resting place of the young king Tutankhamun was the only tomb of a New Kingdom pharaoh to escape almost untouched by robbers. It was the last of the valley tombs to be discovered, being found by Howard Carter in 1922. Its contents included weapons, clothes, furniture, jewellery, musical instruments, and model boats, as well as the king's famous coffins and mask (p. 11). Many of these items were either made of solid gold or were richly decorated with gold leaf. The king was buried with his two still-born daughters and a treasured heirloom - a lock of hair of his grandmother Queen Tiye.

Gods and goddesses

The egyptians worshipped hundreds of different gods and goddesses, and sometimes it is difficult to work out who was who. Many of the gods are represented by animals. For example, a baboon might stand for Thoth, god of wisdom, at one temple, and a moon-god called Khonsu at another. Each of the 42 different administrative districts (or "nomes") had its own god, and there were many others besides. Overall the sun-god was the dominant



THE GODS AND THEIR MAKERS This detail from a 19th-century painting shows the artist's idea of a workshop in which Egyptian figures of the gods were made. The cat is modelling for an image of Bastet (opposite).

deity in Egyptian religion, although he could take different forms. At dawn he would be Khepri, the scarab beetle rolling the sun disc above the eastern horizon. He could then become Re-Harakhty, the great hawk soaring in the sky. He was seen as responsible for all creation - people, animals, the fertility of the soil, and the king's journey through the underworld. As Amun-Re he was king of the gods and protector of the pharaoh when he went on military campaigns. The pharaoh Akhenaten saw the sun-god as a disc with rays



hieroglyph meaning unite". Often called the "Nile gods", these figures were symbols of the came from the river's annual flood.

Amun-Re became the principal god during the New kingdom. He handed the scimitar of conquest to the great warrior pharaohs like Tuthmosis III. He has a mysterious nature, which even the other gods were unaware of - the word "Amun" means "hidden".

The curved beak of the ibis was like the crescent moon, so the bird became the symbol of the moon god Thoth. He gave the Egyptians knowledge of writing, medicine, and mathematics, and was the





Panel from the tomb of Hesire, the king's dentist in c. 2700 B.C.

Magic and medicine

THE GODS OF THE TEMPLES played little part in the lives of ancient Egyptians, so people turned to magic to ease problems like the dangers of childbirth, infant mortality, and fevers. The Egyptians also had great medical skills. Physicians' papyrus manuals survive which describe how to treat ailments and reveal a detailed knowledge of anatomy. They wrote

about the importance of the heart and how it "speaks out" through the back of the head and hands - a reference to the

pulse beat. There were remedies for eye disorders, tumours, and gynaecological complaints. The Egyptians believed that many diseases came from worm-like creatures invading the body. Physicians and magicians worked together, using both medicines and spells for problems like snake bites or scorpion stings. They also used magic to ward off possible injuries from crocodiles or the ghosts of the dead. Letters

relative's spirit was upset or likely to cause trouble. Dangers

to the dead could be written on pottery bowls and put in tombs if a person felt that a dead were also counteracted by amulets or magical charms.

Powerful plants

Plants played an important part in both magic and medicine. Many were very valuable - juniper berries were thought to be important enough for them to be imported from Lebanon. Others, like garlic, were used for medicinal properties still valued in some parts of the world today, but

were used in magic too.

Used to colour the hair and skin,

henna was supposed to have the

power to ward off danger.



JUNIPER BERRIES These were placed in the mummies of royalty. courtiers, or crocodiles, or left in baskets in tombs. Their tice was used in the purification rituals performed over the corpse.

This flower was very

important to the

Egyptians - they decorated their

temples and

many of their

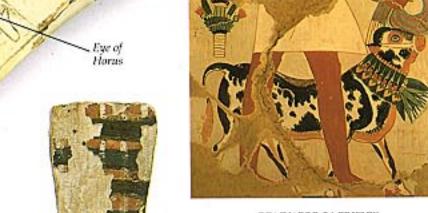
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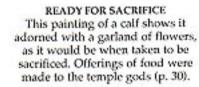
This plant was used in burials. It was also thought to repel snakes and expel tapeworms.

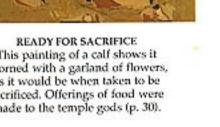


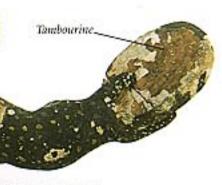
Magical charms could be worn on necklaces and bracelets while a person was alive, and placed on the corpse in the mummy wrappings to give protection in the next life. They were supposed to ward off any injury and were sometimes accompanied by



Serpent armed







GOD OF THE FAMILY

Popular at all levels of Egyptian society, the god Bes cuts an amusing figure dancing on a lotus flower and holding a tambourine. He is carved out of wood and painted. Bes is partly a dwarf and partly a lion. He has grotesque features, a protruding tongue, and often carries a sword to repel danger. He was the god of the welfare of newborn children and of the family in general.



27

This is the magical stela that counteracts the natural perils of living in ancient Egypt. The son of Isis and Osiris, Horus the child, or Harpocrates, stands on the backs of crocodiles, preventing them from snatching any members of the family. In his hands he grips the dangers that the Egyptians knew in the deserts - snakes, scorpions, lions, and gazelles, which were sometimes thought to be creatures of ill-omen. Horus, although shown as a child, naked and wearing the sidelock of youth, has the power of Isis in him and is strong enough to protect the household where this stela was set up.



MAGICAL KNIFE

of a house.

The designs on these boomerang-shaped objects were thought to have great power. It is the total combination of all the creatures that gives this knife its power. It was probably used to draw a magical protective barrier around vulnerable parts

On this papyrus calendar, most of

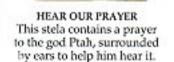
the days are written in black. The

ones in red are unlucky days. The

of the dry deserts and was often

used to represent bad fortune.

colour red reminded the Egyptians



GODDESS OF CHILDBIRTH Prayers to this goddess were an

essential part of giving birth. She was called Taweret, and is shown as a pregnant hippopotamus. She can look ferocious - this is to keep away evil from attacking the woman as she gives birth. Magic liquid could be poured out of her breast.



Priests and temples

 ${f I}$ N THEORY, the pharaoh was supposed to carry out the duties of the high priest in every temple in Egypt, but his place was

usually taken by the chief priest. In the great temples such as Karnak at Thebes, sacred to Amun-Re, King of the Gods, the chief priest had great

power and controlled the vast wealth

in the temple treasuries and the great lands of the temple estates. The office of chief priest could remain in the hands of one family for generations until the pharaoh broke their hold by making an appointment from outside. The priests had titles to indicate their power - they could be called "God's Servant", with the addition of "First", "Second", or "Third", to show their position. Priests at lower levels could be called "Pure Ones" or "God's Fathers" and would have the responsibility of serving on the temple rota system, maintaining the temple's

property, and keeping administrative records.

KNEELING PRIEST

This type of priest was called a

"Yun-mutef" priest, meaning "Pillar of his Mother". He symbolizes the

divine child Horus (p. 27), wears a

leopardskin, and has his hair in a

sidelock to represent youth. He

kneels at an offering table.

FEED THE BIRDS Sacred to the god Thoth, ibises were

revered in Egypt. This detail from a

fanciful 19th century painting shows

ibises being fed by a priestess.

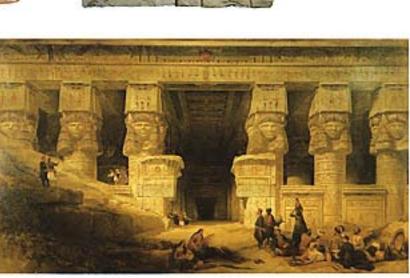
Sidelock

and tail of

leopardskin



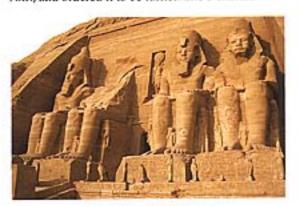
FALSE DOOR Courtiers had tomb chapels with false doors, which stood for the idea of contact between the tomb and the place where offerings to the gods could be made. "Soul priests" would leave offerings of food and drink at these doors on this door several bearers are shown bringing meat, poultry, and bread to the tomb.



THE TEMPLE OF DENDERA The goddess Hathor's temple as it survives today belongs to the time when Egypt was ruled by the Greeks and Romans (pp. 62-63) - in fact Queen Cleopatra is shown on its rear wall. The heads belong to the goddess Hathor.



This detail of a painting by David Roberts, who travelled widely in Egypt in the 19th century, shows the temple of Isis on the island of Philae. This was the final Egyptian temple to fall to the Christians. The Roman emperor Justinian closed it in the 6th century A.D., and ordered it to be turned into a church.

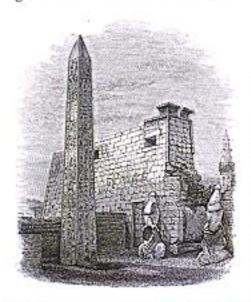


COLOSSAL CARVINGS

Near the second cataract of the Nile at Abu Simbel in Nubia, Ramesses II ordered two temples to be carved out of the sandstone cliffs. This one was carved for himself and three major Egyptian gods -Amun, Re-Harakhty, and Ptah. Huge statues of Ramesses flank the entrance.

Obelisks

The Egyptians carved stone obelisks with the titles of their kings and dedications to the gods. The pointed tip of the obelisk represents the ground on which the sungod stood to create the universe.



GATEPOST? This obelisk was one of two that stood at the entrance to the temple at Luxor. The other obelisk was given to the king of France and is now in the Place de la Concorde,



28







Scribes used tags like this to label their scrolls. This one tells us that its papyrus was written in the reign of Amenhotep III and told a



Writing

Scribes had to be experts in writing hieroglyphs, an elaborate form of picture-writing with about 700 different signs. It was deliberately kept complicated so that not too many people could use it and the scribes kept their special position. Hieroglyphs were used on state monuments, temples, tombs, and religious papyri. They could be written from left to right, right to left, or top to bottom. For business contracts, letters, and stories, scribes used a different form of writing (script), called hieratic, which was a fast-written version of hieroglyphs, always running from right to left. Later on an even more rapid script evolved. Called demotic, it was often used for legal documents. Scribes living at the end of the Egyptian civilization also had to be able to write Greek, the language of their overlords.



TWO SCRIPTS

On papyrus, scribes usually used the fast form of writing called hieratic. On this example, hieroglyphs appear above the picture of a high priest making an offering to the god Osiris. To the left is the script in hieratic.

ROYAL DOOR PLATE The hieroglyphs on this metal plate read: "There shall

always exist the Son of Re whom he loves, Amenhotep the god, ruler of Thebes".

King's name contained in oval border called a cartouche

CYLINDER SEAL

Seals like this were an early way of proving ownership or authority. This one bears the name of King Meryre, and also the name of one of his officials who was obviously the owner of the seal. To the right is an impression showing the complete surface of the seal.







IMHOTEP

This talented scribe lived 4,500 years ago. He was High Priest of the sun-god as well as being the designer of the first pyramid, at Saggara. After his death he became accredited with limitless wisdom and was eventually turned into a god. Here he is unrolling a papyrus scroll.

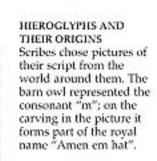
Cartouche bearing ame of King Meryre

Name of Meryre's official



Underside

The beetle, symbolizing the sun-god (p. 24), was often carved on the tops of stamp seals. The underside could include names, titles, or information that the owner could stamp on clay or papyrus. The large scarab tells us that Amenhotep III killed 102 lions during his reign.





The Rosetta Stone

When the last temple was closed in the 6th century A.D., the skill of reading hieroglyphs was lost until the discovery of this stone in 1799. On the stone are three scripts. The bottom section is in Greek, the centre in demotic, and the top is in hieroglyphs. The stone was first set up in a temple. It was an elaborate "thankyou" to the Greek ruler of Egypt Ptolemy V, who reigned in the 2nd century B.C., for benefits that he had given to the priests. The three scripts contained the same text, so allowing the hieroglyphs to be translated.



THE STONE When it was known that the stone contained royal names such as Ptolemy, their equivalents in hieroglyphs could be found at the top of the stone. From this information, the hieroglyphs making other words were worked out and the text was

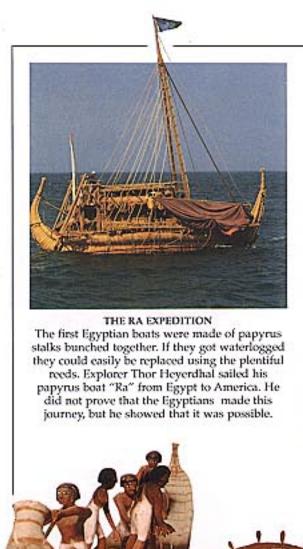
NOTEBOOK

gradually deciphered.

Some hieroglyphic signs needed a lot of practice from pupil scribes. Here a scibe has got carried away drawing the duckling hieroglyph, which was used in writing the word for "prime minister". The scribe has also practised drawing the head of a lion, which is used in one of the scenes in the Book of the Dead.







These skiffs are made of bundles of papyrus reeds tied together with twine. They are each propelled by two oarsmen and are linked to each other by the dragnet. You can see some of the fish trapped

in it as well as the floats around the edges of the net. The fishermen are about to pull

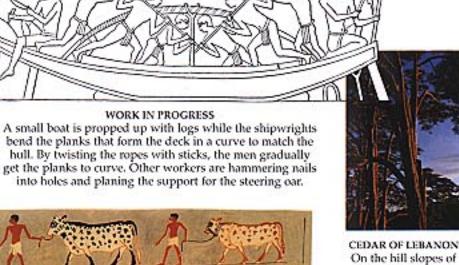
the net in with the catch.

Sailing on the Nile

THE NILE was the main highway of Egypt. The earliest boats were made of papyrus but dockyards along the Nile were soon busy making boats out of timber. Our best evidence for the skill of the shipbuilders is a boat over 40 m (130 ft) long built for King Khufu around 4,500 years ago and discovered in a pit next to the Great Pyramid (pp. 20–21). It was a keel-less ceremonial barge with a cabin for the king and was probably intended for Khufu's journey with the sun-god in the afterlife. Temple reliefs show other large boats transporting huge columns and obelisks of granite from the quarries of Aswan to sites hundreds of miles away. From small cargo boats for carrying grain to state ships for kings and high officials we get a full picture of transport on the Nile. The Egyptians gave ships names like we do today. For example, one commander started off in a

ship called "Northern" and got promoted to the ship "Rising in Memphis".





Lebanon and Syria grew cedars and junipers, highly prized for building impressive ceremonial boats - King Sneferu sent 40 boats to Byblos to collect cedar wood. The height of a cedar tree could range from 20 to 33 m (60 to 100 ft) and the branches had a wide spread. Cedar

gave the largest timbers for the biggest

Men pushing boat

up in the picture.

The real measure of wealth for an Egyptian

landowner was the number of cattle he

possessed. The cows were branded and

protected from predators. Transporting

them across the Nile or a canal could be

difficult as the water was too deep for

wading. So special broad vessels were made for cattle. Here you can see the cattle being hand-fed, balancing precariously on top of the deck stalls. In reality they would be on the deck itself but the artist wanted to show what was going on so moved them.

> Model boats were put in tombs for the owner for transport in the afterlife. This one gives a good view of the red-painted planks across the deck. Some of the men pull the rigging to fix the

sail in position; others lean on poles to push the boat away from the shore or a sandbank, or to manoeuvre it into the breeze. At the bow a sailor is using a plumbline to test the depth of the water, while another member of the crew holds the steering oar in the stern. The canopy is decorated with shields; below it would sit the boat's owner, travelling with his "luggage".

TRAVELLING BOAT

to test depth of unter

Owner of

the boat

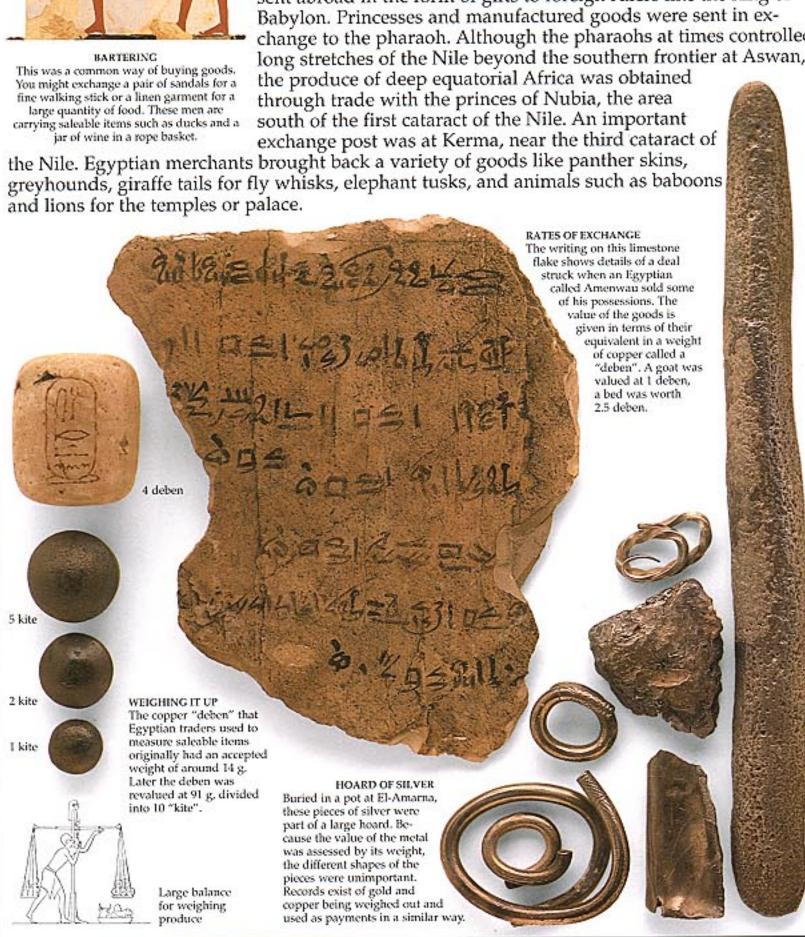
In the 19th century dhows

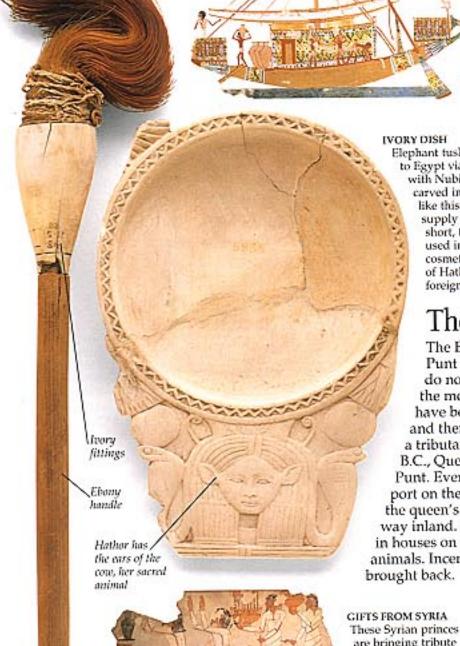
as their ancient ancestors.

were as common on the Nile

Buying and selling

EGYPT WAS THE WEALTHIEST COUNTRY of the ancient world. Some of the gold from the mines of the eastern desert and Nubia was sent abroad in the form of gifts to foreign rulers like the king of change to the pharaoh. Although the pharaohs at times controlled long stretches of the Nile beyond the southern frontier at Aswan,





Elephant tusks came to Egypt via the trade with Nubia and were carved into luxury items like this cosmetic spoon. If the supply of ivory from Nubia fell short, the teeth of hippos could be used instead. The design of this cosmetic spoon includes the head of Hathor, goddess of beauty and foreign countries.

Unloading pottery wine jars from a Nile boat belonging

to a high official

CASSIA The dried bark of a type of laurel tree, cassia was brought from India. The Egyptians used it for perfume and incense.

The land of Punt

The Egyptians thought of the land of Punt as a remote and exotic place. We do not know exactly where it was, but the most frequent route to it seems to have been along the coast of the Red Sea and then inland towards the river Atbara, a tributary of the Nile. In the 15th century B.C., Queen Hatshepsut sent five boats to Punt. Eventually the boats pulled in at a port on the coast of eastern Sudan. From here the queen's representatives were taken some way inland. Here they saw people who lived in houses on stilts to protect them from wild animals. Incense was the main cargo they



FRANKINCENSE In eastern Sudan, Ethiopia, Somalia, and Yemen grew trees that yielded this fragrant gum resin.



FLY WHISK Ebony, used in lazuli this fly whisk, bull set was a highly valued import from central Africa. It was bought in shipments of logs from the Nubians, Courtiers used to carry fly whisks, and these became signs of their status.

are bringing tribute to the pharaoh. They offer gold vases decorated with lotus flowers, and perfume containers in gold, lapis lazuli, or ivory. One Syrian prince brings his daughter to be brought up at court.

LAPIS LAZULI Merchants from Afghanistan brought this valuable stone to trading centres like Byblos in Lebanon. The Egyptians prized this gem, and thought that the hair of the sun-god was made of lapis lazuli.

Unworked lapis lazuli

THE INCENSE TRADE trees to plant in front of Queen Hatshepsut's temple.

The myrrh and frankincense that the Egyptians carried back from Punt could have been brought from still further south. They took not only the gum resin but also whole

40





The Egyptians at home

Houses in ancient egypt were built from bricks made from the Nile mud. The mud was collected in leather buckets and taken to the building site. Here workers would add straw and pebbles to the mud to strengthen it and pour the mixture into wooden frames to make bricks. They would leave these out in the sun to dry. When a house was built, its walls would be covered with plaster, and the inside was often painted - either with patterns or scenes from nature. Inside, the houses were cool, as the small windows let in only a little light. Wealthy families had large houses. Beyond the hall would be bedrooms and private apartments, and stairs to the roof. The kitchen was some distance from the living rooms, to keep smells away. The Egyptians held parties in their homes, which the children enjoyed as much as their parents.



AROUND THE POOL

A pool was often the central feature of a wealthy family's garden. It would be stocked with lotuses and fish, and the water would be renewed regularly to keep it fresh. Poolside borders would be planted with shrubs and trees such as sycamore figs, date palms, and acacia trees.

HOME COMFORTS

This is a typical home belonging to a successful official, the royal scribe Nakht. Made of mud bricks, the walls were coated with limestone plaster. Grille windows high on the walls let in only a little sunlight and dust, while vents trap the cool north wind. In front would be a garden with a pool and trees, in which Nakht and his wife could relax.



This model shows the house of a poorer family. The model would have been placed in the tomb of the owner, for use in the next life, so it is known as a "soul house". The entrance is through a low arched doorway. A window lets in a little light, and a stairway leads to the roof, where a vent could catch the cool north breeze that the Egyptians loved so much. Food is stored around the walled north courtyard of the house.



This side view shows the graceful carved profiles of some typical Egyptian chairs

Empty vessels

A variety of cups, jars, and pots have survived from ancient Egypt. Among the earliest were stoneware vessels, some made over 5,000 years ago, before the first pharaohs ruled Egypt. These were often superbly crafted from attractive mottled stone. Later, a widespread material was faience, made by heating up powdered quartz in a mould. Many different designs were made, including drinking cups and storage containers for wine some of the jars had pointed bases, showing that they would have been set on stands.



DRINKING CUP

Water, wine, or beer

could have been drunk

IN HAND Carved over 5,000 years ago, this vase is a container for oil or other liquids. The contents could be poured in and out through the hole above the wings. It is made of a mottled stone called breccia.

FRUIT BASKET

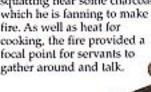
WINEJAR

wine is made of

decorated with

Baskets were easy to make from either palm leaves or strips of papyrus. Some were patterned, either with abstract designs or pictures of people. They were often used as household containers - this one holds two dom palm fruit.







BUTCHERS AT WORK

An ox was slaughtered by tying three of its
feet together, pushing it on its side, and
cutting its throat. The free leg was cut, and
sometimes given as a religious offering.

Food and drink

The fertile Mud deposited by the annual Nile flood allowed farmers to grow barley and emmer wheat, the mainstay of the Egyptian diet. Stored in granaries, these crops were turned into bread or beer. The flood plain also lent itself to the cultivation of vegetables such as onions, garlic, leeks, beans, lentils, and lettuce. There were also gourds, dates and figs, cucumbers and melons, but no citrus fruits. Egyptian bakers made cakes of many shapes and sizes, sweetened by dates or by honey gathered from conical pottery beehives. Grapes

grown in the Nile delta or oases of the western desert were plucked for wine-making or drying into raisins. The less well-off people would have less meat and poultry, and more fish. The

spread at banquets was
extremely varied - from
ducks, geese, and oxen
to oryx and gazelle.
There were also pigs,
sheep, and goats,
which could be

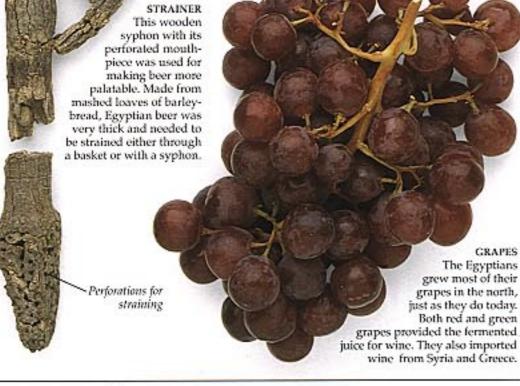
boiled or roasted.

Two men pluck bunches of grapes from the vines. This job was often given to foreign settlers or prisoners from the Middle East or Nubia. The grapes would then be taken to be crushed by treading.

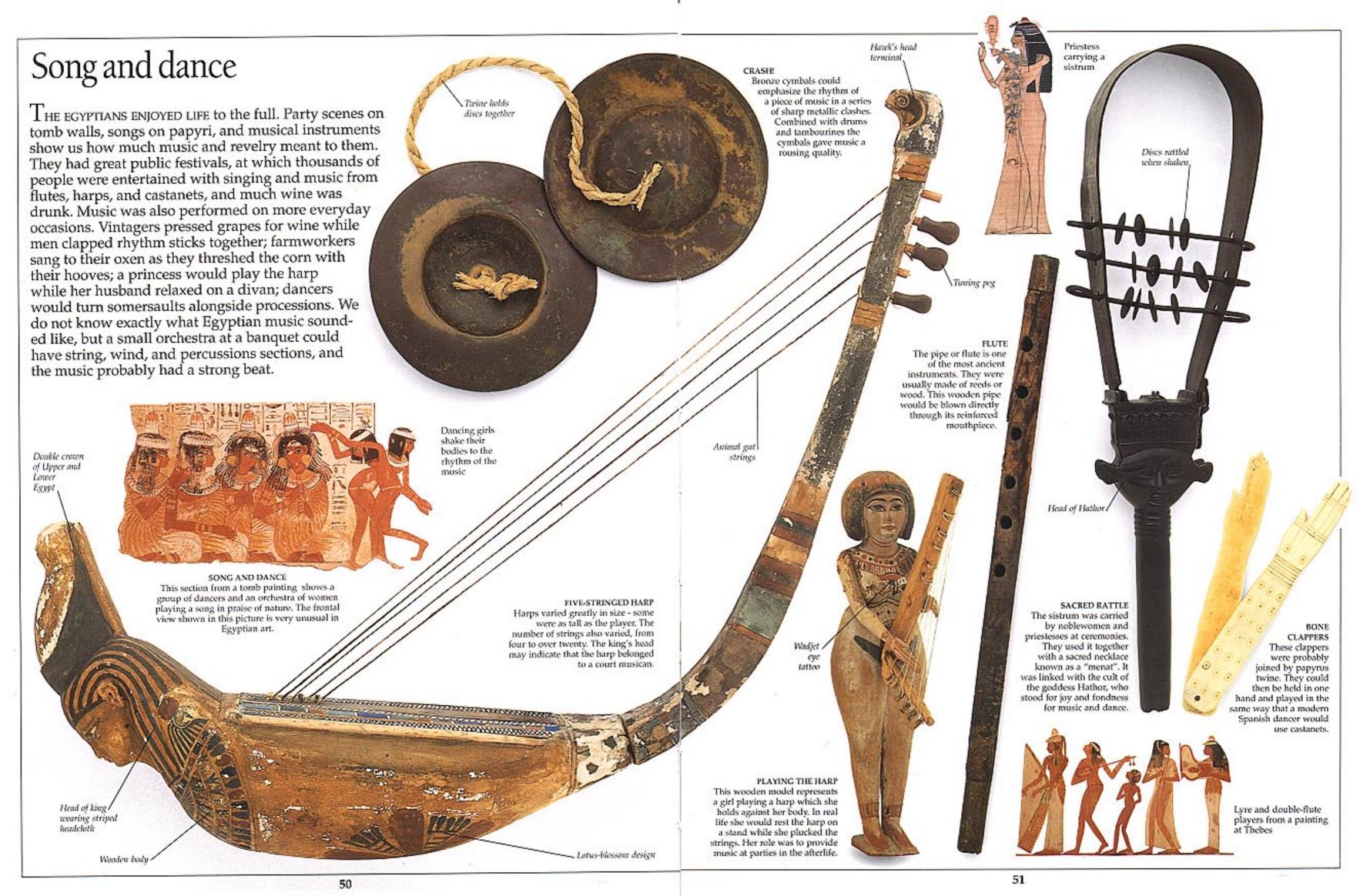
years old,
this bread was
baked from barley dough. Its texture is
tough: flour often contained
grit that got in during grinding. Studies of
mummics have shown how coarse bread
made Egyptians' teeth wear away.

than 3,000

A Syrian soldier serving the pharaoh Akhenaten is sitting drinking beer through a syphon







Toys and games

GAME PIECE

This carved lion

head could have

counter in a number

been used as a

TOY MOUSE

This wooden mouse had

of games.

EVEN AS CHILDREN, the ancient Egyptians enjoyed life. Some of the games they played are still loved by children today, such as

"khuzza lawizza", or leapfrog, and tug-of-war. There are also Egyptian paintings showing

boys playing soldiers and girls holding hands in a sort of spinning dance. Then there were board games, like snake and the more complicated senet, and a number of toys from model animals and dolls to balls. The Egyptians

were also great storytellers, and kept their children amused with popular tales of imagination and enchantment. In one example, a magical wax toy crocodile turns into a real one when thrown into the water - a relevant story for people who lived under the threat of being eaten by crocodiles every day of their lives.

DOLL OR GIRLFRIEND? The Egyptians made dolls out of wood, with hair of clay beads attached to lengths of twine. Dolls like this one may have been for children, or they may have been made to put in someone's tomb, to act as a companion in the afterlife.

BALL GAMES A popular pastime, especially for girls, was throwing and catching balls. This was not just done standing, but also on piggy-back or leaping high into the air.



BALLS OR RATTLES?

These colourful balls

with seeds or small beads of clay, so that they rattled as they were thrown.

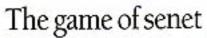
Twine to move

lower jaw

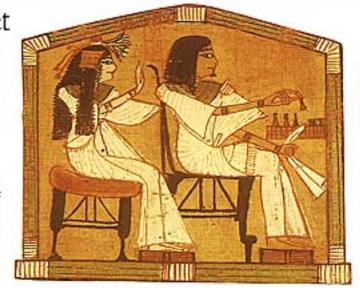
are made of clay. They were originally filled

HORSE ON WHEELS The Egyptians used horses to pull chariots and also on hunting trips. Horse-riding became a favourite pastime of the pharaohs. This toy horse, dating from Roman Egypt, has a saddle mat thrown over it. It was pulled along by a rope through the muzzle.

a twine fitted to it, which a child could pull to ROAR OR MIAOW? make the tail go This toy does not seem up and down. to know whether it is a cat or a lion. Roughly carved from wood into a cat-like shape, its main attraction is its movable lower



This board game symbolized a struggle against the forces of evil that tried to prevent you from reaching the kingdom of the god Osiris. On the thirty squares of the board were images that could stand for advantages like "beauty" or "power", or for perils, like the spearing of a hippo. There were two sets of counters and moves were made according to the way throwsticks landed.



cone would set these tops spinning. They were made of powdered quartz formed in a mould and then glazed. Toys of cheap materials like this meant that even the poorest families could give their children a few amusing games.

SPINNING TOPS

A vigorous twist of the fingers or a tug on

some papyrus twine wound on to the

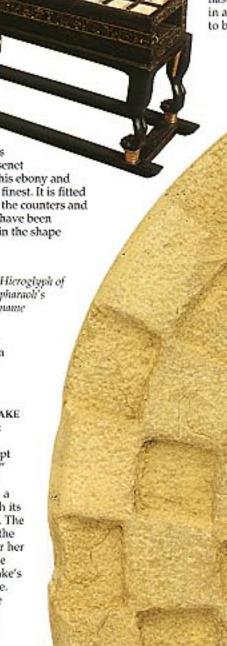
FIT FOR A KING

Tutankhamun was buried with four senet boards of which this ebony and ivory board is the finest. It is fitted with a drawer for the counters and fixed on legs that have been delicately carved in the shape of animals' feet.



Stone ball used in the snake game

THE GAME OF SNAKE One of the earliest board games discovered in Egypt was called "snake because the stone board represented a serpent coiled with its head in the centre. The winner would be the first to move his or her counter around the squares on the snake's body to the middle. The stone balls are sometimes carved with the names of some of Egypt's earliest pharaohs.





jaw, attached to some twine





All that glitters You can see the glint of gold everywhere in Egyptian jewellery - mines between the Nile and the Red Sea coast yielded large quantities of this precious metal. The gold could be beaten into shape or cast in moulds. Goldsmiths also made patterns using a method called granulation, in which tiny granules of gold were attached to an object by soldering. Egyptian jewellers had access to many semi-precious stones from the deserts - the orange-red carnelian, the green feldspar, and the mauve amethyst. They also imported JEWELLERS AT WORK stones. From mines in the Sinai peninsula Many metal objects were made by came the light blue turquoise and trade casting - heating the metal until it was liquid (top) and then routes from Afghanistan brought pouring it into moulds (above) in the shapes of rich blue lapis lazuli to Egypt. the objects required. But Egyptian jewellers had no knowledge of stones like Metal strips bent into shape and soldered on to base Rings of gold being diamonds, emeralds, FALCON PECTORAL brought to Egypt This falcon was worn on or rubies. the chest. It represents the god Re Harakhty. The metal originally formed a n holds the "shemi" ROYAL framework for segments of symbol, meaning eternity BRACELET faience, glass, or gems. Made for Prince This technique is called Nemareth, the "cloisonné" work. Only bracelet has a traces of the inlay now central design showing the god Horus as a child GIFT OF A KING (p. 27). He is sit-Outstanding service to ting on a lotus the state was rewarded and is protected by the gift of jewellery from by cobras. Like the king. He would lean out of many children in a window and drop bracelets Cowrie shell shows wish of Egyptian art, he or collars to the nobles waiting vearer to have children is portrayed respectfully below. This collar of honour sucking his has three rows of gold rings threaded tightly finger. give name of together on twine. It would be tied in position at the back of the neck. Sometimes the pharaohs LUCKY GIRDLE themselves wore collars like this. This is the surviving section of a girdle. As well as cowrie shells made of electrum (a form of gold that Fish amulets, to FINGER RINGS contains a high proportion of prevent drowning Rings often incorporated a A STAR IS BORN silver), it contains beads of swivelling stone in the shape This star was worn on the forecarnelian, amethyst, lapis of a scarab beetle (p. 24). The head as a diadem. Made of gold, it lazuli, and turquoise. underside was carved with a dates from the Roman period of good-luck design. These Egypt. The Roman scarabs are made of mummy mask steatite (soapstone), an shows a priest easy material to carve wearing a diadem. diadem EAR ORNAMENTS Steatite and gold Middle Eastern influence led Steatite and gold ring the Egyptians to have their ear Faience lobes pierced and wear earrings. wearing his These earrings show how large the hair in a sidelock, to perforations had to be for these studs of the 14th century B.C. Heh, god of "millions of years", symbolizes long life. 57



Animals of the Nile Valley

The lion represented strength and domination, and so became an emblem of the god-king himself. Rarely is the lion shown being hunted by any other person than the pharaoh. This gold lion was originally part of a necklace.

THE ANCIENT EGYPTIANS shared their environment with many different beasts, birds, reptiles, and fish. Out in the desert east and west of the Nile Valley you would find ferocious lions and wild bulls as well as timid antelopes and gazelles. These animals either hunted their prey or grazed on the margins of the flood plain. The stillness of night would suddenly be broken by the eerie howls of the scavenging hyenas and jackals fighting over carcasses. In the papyrus thickets beside the Nile there would be nests of

birds like pintail ducks, cormorants, pelicans, and hoopoes. Lurking on the river banks would be crocodiles and in the water you might see hippos with Nile perch and catfish darting around them. Animals appear on many ancient Egyptian objects. They were thought of as part of the "world

system" made by the sun god, and as the earthly

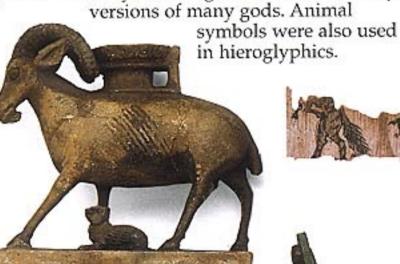
PEEK-A-BOO The goddess Hathor was often portraved as a cow in the papyrus marshes.

designs show hippo's

aquatic habitat



This glass bulti fish was made by moulding the glass over a core. The ripples are meant to indicate the fish's scales. The flask was designed to hold perfume, which could be poured out of the mouth into the owner's hand. Objects like this show the beauty of the fishes of the Nile and the Red Sea.



WILD SHEEP AND NONCHALANT CAT

On this cosmetic container a wild sheep, or moufflon, is stepping carefully over a crouching cat that is clearly determined not to move. Rams symbolized some of the most important gods in ancient Égypt. A curly-horned ram could represent Amun-Re, King of the gods.

CROCODILE-GOD The peril of being snatched and eaten by crocodiles led the Egyptians to try to get these dangerous creatures on their side. Consequently the crocodile became the symbol of the god Sobek, and priests used to decorate sacred crocodiles with jewellery and mummify them

when they died.



Satirical papyri show the Egyptian topsy-turvy sense of humour. Two enemies, the antelope and the lion, are enjoying a friendly game of senet (p. 53). A jackal playing a double flute escorts a herd of goats while in front a cat lovingly attends to some geese. The lion at the end seems to be amusing himself at the antics of an ox on a couch.

Crown of Osiris, made up of ram horns, reeds, and ostrich feathers.

GEESE ON PARADE These goese are part of a very early tomb painting and were meant to ensure that the supply of food in the afterlife would not run out



Cats sacred to the goddess Bastet (p. 25) were mummified when they died. They were wrapped in linen bandages and their faces were painted to make them look bewildered - or just plain silly. They were put in cat-shaped coffins and were sold to temple visitors, who could then take them to the temple burial grounds and dedicate them to the goddess Bastet.







Nothing illustrates the Egpytian fondness for visual humour quite so much as their models of standing hippos. The male hippo was a creature of evil omen because of its association with the god Seth, arch-enemy of Osiris and Horus, rightful rulers of Egypt. In reality, hippos could easily overturn a papyrus boat and were often hunted for this reason.

Egypt after the pharaohs

EGYPT WAS INVADED by foreigners several times in the last 1,000 years B.C. The invaders included the Sudanese, the Persians, and the Macedonians under Alexander the Great. Alexander was followed by his general Ptolemy, who founded a dynasty that ruled from Alexandria. These rulers spoke Greek and worshipped Greek gods and goddesses, but on temple walls they were portrayed as traditional Egyptian rulers. In 30 B.C. Egypt passed into Roman hands and gradually, following the conversion to Christianity of the Roman emperors, churches and monasteries replaced the temples. The Arab invasion of the 7th century A.D. turned Egypt into the mainly Muslim country that it is today.

The Romans

The Roman world took grain from Egypt's fields and gold from its mines. But although the Romans exploited Egypt they also built temples. You can see the names of emperors like Augustus and Tiberius written in hieroglyphs just like those of the pharaohs, and even wearing elaborate Egyptian crowns.

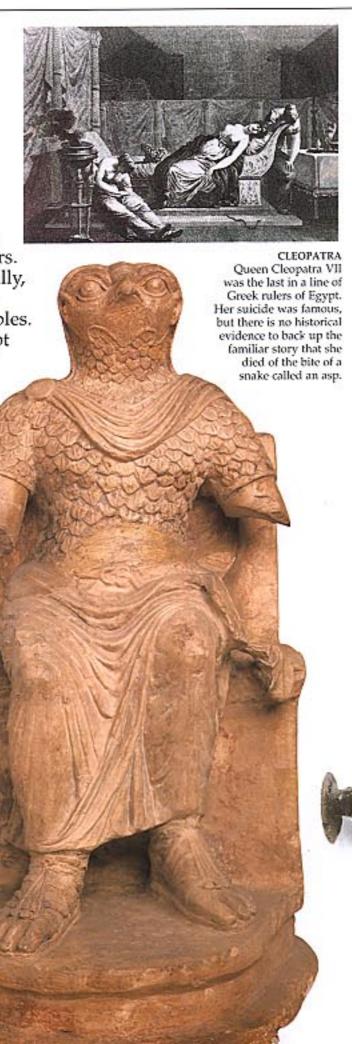
> EMPEROR AS HORUS Just as the Egyptian pharaoh was identified with the god Horus (p. 27), so the Roman emperors were sometimes portrayed as this hawk-headed god. The hawk's feathers suggest metal armour and the figure wears Roman sandals and a toga-

Mummy of Artemidorus





ROMAN MUMMIES Mummies of the Roman period often had lifelike portraits of the deceased. The coffin above shows its owner, Artemidorus, painted in typical wideeyed Roman style. The pigment was mixed with beeswax to give bright colours. The idea of these portraits was to help a person's spirit identify the body to which it belonged. They look towards you as if they had been called by name.



The Christians

Although there were Christian hermits living in caves in Egypt beforehand, Egypt officially turned to Christianity with the conversion of the Roman Empire in A.D. 324. The version of Christianity that eventually triumphed in Egypt was called Coptic. It still flourishes in the country today and Coptic monks still live in thriving monasteries. Recently the relics of St Mark, who is said to have introduced Christianity into Egypt, were sent back from Venice to Cairo.

SURVIVOR

Qasr Ibrim, a mountain in Nubia, was the centre of a Christian diocese that was stormed by Muslim troops. This silver cross was one of the items to survive the attack.

WARRIOR SAINT

The image of the god Horus on horseback spearing his rival Seth was adopted by the early Christians in Egypt to portray warrior saints like St George and St Menas.

roundel showing the

victorious St George

Brass openwork design

STREET SCENE Up to the 19th century the streets of Cairo contained stalls - each selling the products of one craft - running alongside the walls, minarets, and domes of the mosques

The Muslims

Arab armies, skilled in warfare on horseback, conquered Egypt in the 7th century A.D. They ruled through the existing, mainly Christian, bureaucracy. But Islam became the state religion, Arabic the official language, and the new city of el-Qahira later became the capital, Cairo. Eventually Egypt was conquered by the Turks and it was not until the 1960s that the country was again governed by a native Egyptian.

INCENSE BURNER Made about 1,000 years ago this vessel was used in a mosque. Burning incense was part of the ritual of purity (which included washing and removing shoes on entering a mosque) that Muslims observed.

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Acknowledgements

Dorling Kindersley would like to thank: The Department of Egyptian Antiquities, British Museum for the provision of artefacts for photography; James Puttnam for his invaluable assistance in arranging for artefacts to be photographed and for his help with picture research; Celia Clear of British Museum Publications; the Departments of Oriental Antiquities and Medieval and Later Antiquities, British Museum for extra objects for photography; Morgan Reid for his advice on photographic lighting; Meryl Silbert for production; Karl Shone for special photography (pp. 20-21); Lester Cheeseman for his desktop

publishing expertise.

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